



SCOTT THOMPSON  
EXECUTIVE DIRECTOR

OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY

MARY FALLIN  
GOVERNOR

REDACTED VERSION

October 21, 2014

(b) (6)

Dear Mr. and Mrs. (b) (6)

The Oklahoma Department of Environmental Quality (DEQ) sampled water from your house well on September 18<sup>th</sup>, 2014 as part of a reoccurring sampling event that will be performed approximately every three months. DEQ has offered this sampling to residents that live on, or adjacent to the Wilcox Oil Company Superfund Site. You are receiving this letter because you have provided DEQ permission to enter your property and collect a water sample from your well.

DEQ sampled for three types of contaminants that can be found on historical refinery locations. Those are: Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs) and Metals.

The first page of the sampling data is for VOCs. Results of the sampling are located in the Results column. The "<" symbol indicates that the substance was not detected in the sample. The next three pages are for SVOCs, and the last page for Metals. The "<" symbol in the Qualifier column indicates that the substance was not detected. No VOC or SVOC chemicals were detected in the water sample from your well. Several metals were detected at normal levels and are not considered to be a health risk.

The purpose of this sampling event was not to fully define the extent or type of contamination that may be present on the Wilcox Site. All potential health risks from the Site are unknown at this time. Further soil, sediment, surface water and ground water testing will be required in the future to determine how best to clean up the Wilcox Site.

If you have questions about this letter or the sampling data, do not hesitate to call me at (405) 702-5136. Please contact Bart Canellas with the U.S. Environmental Protection Agency at (214) 665-6662 with any questions about the EPA Superfund process or plans for the Wilcox Site.

Sincerely,

Todd Downham  
Project Manager, Wilcox Oil Company Superfund Site  
Land Protection Division  
Oklahoma Department of Environmental Quality

c. Bart Canellas, U.S. EPA Dallas



9535492



## State Environmental Laboratory Services Division

EPA DRINKING WATER CERTIFICATION #OK00013

General Inquiries: 1-866-412-3057

### SAMPLE INFORMATION

Sample Number: 049217.008 Collected By: TD  
Description: (b) (6) Collected: 9/18/14 3:00 pm  
Sample Address: WR-8 Received: 9/19/14 8:34 am

### TEST RESULTS

Analysis: Volatile Organic Compounds Analysis Method: EPA 524.3

| Component Name                 | Result | Unit | Qualifiers | Analyst | Analysis Date |
|--------------------------------|--------|------|------------|---------|---------------|
| 1,1,1-Trichloroethane          | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,1,2-Trichloroethane          | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,1-Dichloroethene             | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,2,4-Trichlorobenzene         | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,2-Dichlorobenzene            | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,2-Dichloroethane             | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,2-Dichloropropane            | <0.5   | µg/L |            | RMA     | 9/22/14       |
| 1,4-Dichlorobenzene            | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Benzene                        | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Carbon Tetrachloride           | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Chlorobenzene                  | <0.5   | µg/L |            | RMA     | 9/22/14       |
| cis-1,2-Dichloroethene         | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Ethylbenzene                   | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Methyl tert-Butyl Ether (MtBE) | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Methylene Chloride             | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Styrene                        | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Tetrachloroethene              | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Toluene                        | <0.5   | µg/L |            | RMA     | 9/22/14       |
| trans-1,2-Dichloroethene       | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Trichloroethene                | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Vinyl Chloride                 | <0.5   | µg/L |            | RMA     | 9/22/14       |
| Xylenes                        | <0.5   | µg/L |            | RMA     | 9/22/14       |

Sample Number: 540035  
 Project Code: SW-WE  
 Agency Number:  
 Date Collected: 9/18/2014  
 Time Collected: 1500  
 Date Received: 9/19/2014  
 Date Completed: 09/25/2014  
 Collected By: TD  
 PWS Id:  
 Location Code:  
 Station:  
 Facility:  
 Report Date: 9/25/2014

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**STATE ENVIRONMENTAL LABORATORY**  
 707 N. ROBINSON  
 OKLAHOMA CITY  
 OKLAHOMA, 73102-6010  
 General Inquiries: 1-866-412-3057  
 or selsd@deq.ok.gov  
**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

CC: FILE COPY

SEP 29 2014

| Name                        | Qualifier | Value | Units | Analyzed | Method   | Prep Type |
|-----------------------------|-----------|-------|-------|----------|----------|-----------|
| Dilution Factor, Extractab. |           | 0.93  |       | 09/23/14 |          |           |
| Acenaphthylene              | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Acenaphthene                | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Anthracene                  | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Benzo(b)fluoranthene        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Benzo(k)fluoranthene        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Benzo(a)pyrene              | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Bis(2-chloroethyl)ether     | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Bis(2-chloroethoxy)methane  | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Bis(2-chloroisopropyl)ether | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Butylbenzylphthalate        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Chrysene                    | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Diethylphthalate            | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Dimethylphthalate           | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Fluoranthene                | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Fluorene                    | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Hexachlorocyclopentadiene   | UJ        | <     | 18.6  | UG/L     | 09/23/14 | 8270DM    |
| Hexachloroethane in water   | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Indeno(123cd)pyrene         | UJ        | <     | 18.6  | UG/L     | 09/23/14 | 8270DM    |
| Isophorone                  | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Nitrosodipropylamine        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Nitrosodiphenylamine        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Nitrobenzene                | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| p-Chloro-m-cresol           | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Phenanthrene                | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Pyrene                      | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Benzo(ghi)perylene          | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Benzo(a)anthracene          | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Dibenzo(ah)anthracene       | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| 2-Chloronaphthalene         | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| 2-Chlorophenol              | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| 2-Nitrophenol               | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |
| Di-n-octylphthalate         | <         | 18.6  | UG/L  | 09/23/14 | 8270DM   |           |

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 Project Code: SW-WE  
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**Report of Analysis by GCMS**  
 EPA Drinking Water Certification #OK00013

To: TODD DOWNHAM/LPD

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| Name                       | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|----------------------------|-----------|-------|-------|----------|--------|-----------|
| 2,4-Dichlorophenol         | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2,4-Dimethylphenol         | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2,4-Dinitrotoluene         | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2,4-Dinitrophenol          | UJ <      | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2,4,6-Trichlorophenol      | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2,6-Dinitrotoluene         | UJ <      | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 3,3'-Dichlorobenzidine     | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4-Bromophenylphenyl ether  | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4-Chlorophenyl phenylether | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4-Nitrophenol              | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4,6-Dinitro-o-cresol       | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Phenol                     | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Naphthalene                | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Pentachlorophenol          | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Bis(2-ethylhexyl)phthalate | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Di-n-butylphthalate        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Hexachlorobenzene          | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Hexachlorobutadiene        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| Dibenzofuran               | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2-Methylnaphthalene        | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2-Methylphenol             | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4-Methylphenol             | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2,4,5-Trichlorophenol      | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4-Chloroaniline            | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 2-Nitroaniline             | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 3-Nitroaniline             | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 4-Nitroaniline             | <         | 18.6  | UG/L  | 09/23/14 | 8270DM |           |
| 1,4-Dichlorobenzene        | <         | 18.6  | UG/L  | 09/23/14 | 8260BM |           |
| 1,2,4-Trichlorobenzene     | <         | 18.6  | UG/L  | 09/23/14 | 8260BM |           |

| COMPOUND        | SURROGATE RECOVERIES | RECOVERY % |
|-----------------|----------------------|------------|
| 2-FLUOROPHENOL  |                      | 35         |
| NITROBENZENE-D5 |                      | 42         |

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| COMPOUND             | SURROGATE RECOVERIES | RECOVERY % |
|----------------------|----------------------|------------|
| 2,4,6-TRIBROMOPHENOL |                      | 80         |
| 2-FLUOROBIPHENYL     |                      | 47         |
| PHENOL-D5            |                      | 27         |
| P-TERPHENYL-D14      |                      | 67         |

| COMPOUND | TENTATIVELY IDENTIFIED BY<br>NBS LIBRARY SEARCH | VALUE | UNITS |
|----------|---|-------|-------|
|----------|---|-------|-------|

N/A

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX - 292119515

SAMPLERS COMMENTS:

(b) (6); WR-8

SAMPLE RECEIVING COMMENTS:

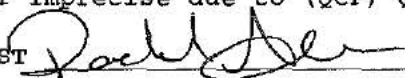
ICE; SAMPLE TEMP = 6.1C

ANALYST'S COMMENTS:

Rachel M. Allen (8270DM). Analyzed.

Sample received on ice during the cooling down phase. (UJ) The material was analyzed for but was not detected at or above the reporting limit (RL). The associated value is an estimate and may be inaccurate or imprecise due to (QCF) Quality Control failure.

\* ANALYST



Sample Number: 540035  
Project Code: SW-WE  
Agency Number:  
Date Collected: 9/18/2014  
Time Collected: 1500  
Date Received: 9/19/2014  
Date Completed: 10/17/2014  
Collected By: TD  
PWS Id:  
Location Code:  
Station:  
Facility:  
Report Date: 10/17/2014

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EPA Drinking Water Certification #OK00013

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CC: TODD DOWNHAM/LPD

| Name             | Qualifier | Value | Units | Analyzed | Method | Prep Type |
|------------------|-----------|-------|-------|----------|--------|-----------|
| Arsenic, Total   | <         | 2.00  | UG/L  | 10/15/14 | 200.8  |           |
| Barium, Total    |           | 73.3  | UG/L  | 10/15/14 | 200.8  |           |
| Beryllium, Total | <         | 2.00  | UG/L  | 10/15/14 | 200.8  |           |
| Cadmium, Total   | <         | 2.00  | UG/L  | 10/15/14 | 200.8  |           |
| Chromium, Total  |           | 6.70  | UG/L  | 10/15/14 | 200.8  |           |
| Copper, Total    | <         | 5.00  | UG/L  | 10/15/14 | 200.8  |           |
| Lead, Total      | <         | 5.00  | UG/L  | 10/15/14 | 200.8  |           |
| Thallium, Total  | <         | 1.00  | UG/L  | 10/15/14 | 200.8  |           |
| Nickel, Total    | <         | 10.0  | UG/L  | 10/15/14 | 200.8  |           |
| Silver, Total    | <         | 10.0  | UG/L  | 10/15/14 | 200.8  |           |
| Zinc, Total      | OT <      | 10.0  | UG/L  | 10/15/14 | 200.8  |           |
| Antimony, Total  | <         | 2.00  | UG/L  | 10/15/14 | 200.8  |           |
| Selenium, Total  | <         | 10.0  | UG/L  | 10/15/14 | 200.8  |           |
| Mercury, Total   | <         | 0.05  | UG/L  | 10/14/14 | 200.8  |           |

Summary

Labs performing analysis on this Sample:

Metals GCMS

SOURCE: WILCOX - 292119515

SAMPLERS COMMENTS:

(b) (6) WR-8

SAMPLE RECEIVING COMMENTS:

ICE; SAMPLE TEMP = 6.1C

ANALYST'S COMMENTS:

(OT) Other Zn results possibly biased low.

\*

\* ANALYST

*Greg Goode*  
Greg Goode  
State Environmental Laboratory